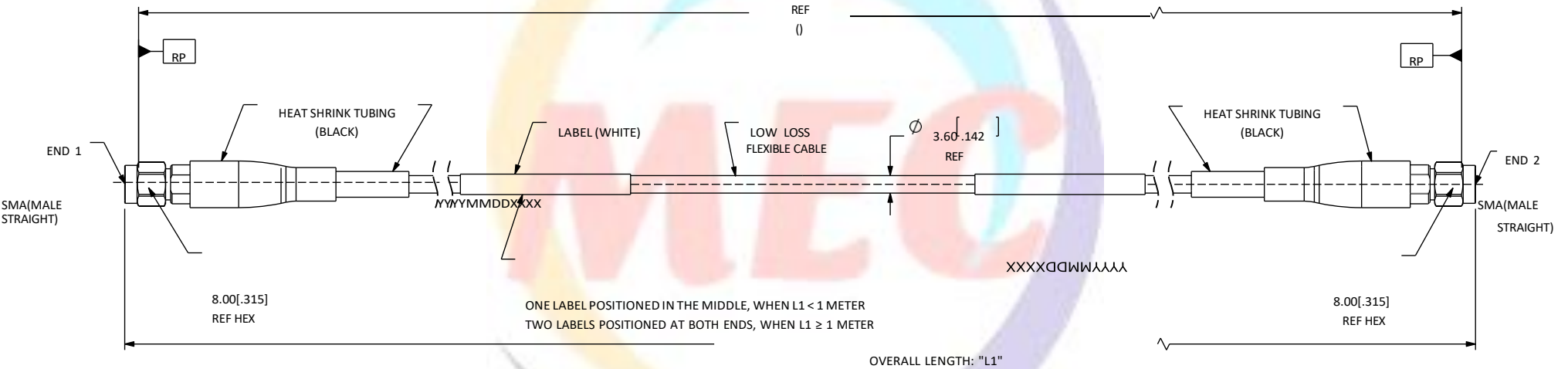
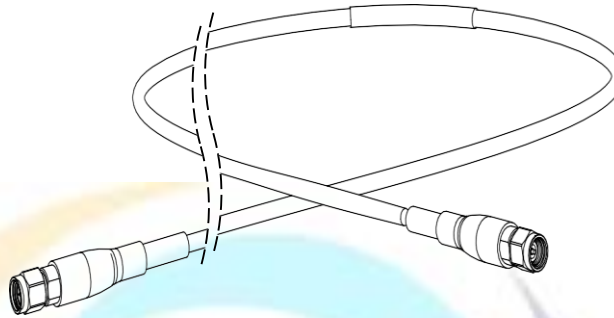


NOTES:

UNITS: MILLIMETERS[INCHES]

# ASSEMBLY DRAWING

- 1. ELECTRICAL:**
- 1.1 IMPEDANCE: 50 Ω
  - 1.2 FREQUENCY RANGE: DC ~ 18 GHZ
  - 1.3 VSWR: 1.30 MAX @ 18 GHZ
  - 1.4 INSERTION LOSS: SEE TABLE 2 / "IL"
  - 1.5 RF LEAKAGE: ≥ 90 DB
  - 1.6 INSULATION RESISTANCE: 1200 MΩ MIN
  - 1.7 DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL
  - 1.8 VOLTAGE RATING: 335 VRMS
- 2. MECHANICAL:**
- 2.1 DURABILITY: ≥500 CYCLES
  - 2.2 MINIMUM BENDING RADIUS(STATIC): 52 MM
  - 2.3 MINIMUM BENDING RADIUS(REPEATED): 125 MM
  - 2.4 RECOMMENDED COUPLING TORQUE: 7-10 IN-LBS
  - 2.6 BENDING STABILITY: +/-5° @ 18 GHZ
  - 2.7 AMPLITUDE STABILITY: +/-0.1 @ 18 GHZ
- 3. ENVIRONMENTAL:**
- TEMPERATURE RANGE: -40°C TO +85°C
- 4. MATERIAL AND FINISH: RAW CABLE,**
- 4.01 AMROR: PTFE WIRE, BLACK+RED
  - 4.02 FEATURES: SUPER LOW LOSS, FLEXIBLECONNECTORS(BOTH ENDS),
  - 4.03 BODY: STAINLESS STEEL, PASSIVATED
  - 4.04 COUPLING NUT: STAINLESS STEEL, PASSIVATED
  - 4.05 CENTER CONTACT: BRASS, GOLD PLATED
  - 4.06 DIELECTRIC: ENGINEERING PLASTIC, NATURAL



## CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

### Attenuation (typical value@25°C & VSWR=1.0)

#### Average power (typical value@40°C & atmospheric pressure)

Frequency MHz	100	300	500	1000	2400	3000	4000	6000	10000	12400	18000
Att. dB/1 m	0.04	0.08	0.1	0.14	0.23	0.25	0.3	0.37	0.48	0.54	0.66
Avg. Power kW	5.817	3.341	2.579	1.812	1.156	1.030	0.887	0.717	0.547	0.488	0.399
				K1=	0.4563000						
				K2=	0.0003200						
Calculate Attenuation=K1* √ F/MHz+K2 *F.MHz											

TABLE - 2 (Raw Attenuation)

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS. AND  
TOLERANCES ARE: DECIMALS ANGLES  
X.X: ±0.25 [0.0100] ± 3°  
X.XX: ±0.05 [0.0020]  
X.XXX: ±0.025 [0.0010]

**PROPRIETARY NOTE**  
THIS DOCUMENT CONTAINS THE CONFIDENTIAL  
INFORMATION AND PROPRIETARY TO MEC ELECTRONICS &  
COMMUNICATION PVT LTD. AND SHALL NOT BE  
REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS  
OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE  
OTHER THAN OBTAINED WRITTEN CONSENT FROM MEC.



MEC Electronics and Communication Pvt Ltd  
RF Products  
Connectors, Cable Assemblies, Adaptors & Customization  
E-mail: [info@mec.org.pk](mailto:info@mec.org.pk) Website: [www.mec.org.pk](http://www.mec.org.pk)

DESC: SMA Male Straight - SMA Male Straight Cable Assembly

PN: MEC-RFCA-201-SMA(MS)-SMA(MS)-1Meter-A



\*\* MS : MALE STRAIGHT

SHEET 1 OF 1